



A CASE HISTORY

Anchors and Foundations for Telecom Industry

Site Owner: American Tower Corporation

Tower Supplier:

Allied Tower

Foundation Contractor:

Lomas Construction

San Antonio, TX

Location: Humphreys, LA

Tower Type : Guyed (4 Levels)
 Tower Height : 330'-0"
 Center (Base) Reactions:
 Maximum Compression 318.5 kips*
 Maximum Groundline Shear 5.9 kips
 *Plus weight of concrete pile cap of 75.0 kips
 Design Load/Guy wire: 34.0 kips

Soil Profile:
 0 - 40' Soft clay
 40' - 20' Firm clay
 50' - 70' Soft clay
 70' plus Firm clay

Center Piles:
 16 Type HS with 70'-0" of plain extension
 Ultimate Capacity (UCt) = UCb + UCf
 UCt = 50.0 + 0.0 = 50.0 kips

Guy Anchors:
 Two Type SS5 anchors per guy wire connected to an 18" Adust-A-Grip® Deadend Grip

Installation Equipment:
 John Deere 410D Heavy-lift backhoe equipped with a 12,500 ft-lb drive motor with an internal torque-monitoring device
 Posi-Track equipped with a 15,000. ft-lb drive motor with an internal torque-monitoring device

- Individual guy wires, each to two anchors



www.abchance.com

A.B. Chance, a Division of Hubbell Power Systems, Inc.
 210 N. Allen St.
 Centralia, MO 65240
 Phone: 573-682-8414
 Fax: 573-682-8660

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